#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Blakesley et al.

USSN:

10/600,584

**GROUP ART UNIT: 1615** 

FILED:

June 19, 2003

**EXAMINER:** Not Assigned

FOR:

ARCHIVING OF VECTORS

#### CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on: November 14, 2003

Bv

Sharon Bizokas

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### TRANSMITTAL LETTER

Transmitted herewith for filing in the above-referenced patent application are the following documents:

- 1. Request for Corrected Filing Receipt (2 pages);
- 2. Copy of Filing Receipt with changes marked in red ink (2 pages)'
- 3. Copy of Assignment from Inventors to Life Technologies, Inc. (4 pages);
- 4. Copy of Merger from Life Technologies, Inc. to Invitrogen Corporation (6 pages);
- 5. Copy of Assignment from Invitrogen Corporation to Whatman Bioscience Limited (5 pages);
- 6. Transmittal of Formal Drawings (1 page);
- 7. Formal Drawings (3 Sheets);
- 8. Information Disclosure Statement (4 pages) and 1449 Form (2 pages);
- 9. Copy of PCT Search Report (4 pages);
- 10. Copy of European Search Report (6 pages);
- 11. This transmittal letter (1 page) (x2); and
- 12. Return Receipt Postcard

The Commissioner is hereby authorized to charge any excess fees that may be required, or credit any overpayment to Deposit Account No. 04-1105. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: November 14, 2003

Kathryn A. Piffat, Ph.D., Reg. No.: 34,901 Intellectual Property Practice Group of

**EDWARDS & ANGELL, LLP** 

P.O. Box 9169

Boston, Massachusetts 02209

Customer No.: 21874 Tel.: 617-439-4444



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Blakesley et al.				
Application No.:	10/600,584	Group No.:1615			
Filed:	June 19, 2003	Examiner: Not Yet Assigned			
For:	ARCHIVING OF VECTORS				
********	**************************************	**************************************			
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313,1450 on: November 14, 2003  By:  Sharon Bizokas  ***********************************					
Alexandria, VA 22313					
	REQUEST FOR CORRECT	ED FILING RECEIPT			
	of the official filing receipt recorrected filing receipt is respect	eived from the PTO in the above application for fully requested.			
Note: The PTO will not co to the notice to file		tion is complete (in other words, the applicant files a response			
2. There is an error wi	th respect to the following data, v	which is:			
[x] incorrectly ente	red				
and/or					
[ ] omitted.					

In re application of: Blakesley et al. Application No.: 10/600,584 Filed: June 19, 2003

Error in Correct data

1.	[ ] Applicant's name	1.	
2.	[ ] Applicant's address	2.	
3.	[ ] Title	3.	
4.	[ ] Filing Date	4.	
5.	[ ] Serial Number	5.	
6.	[ ] Foreign/PCT Application Re:	6.	
7.	[x] Other: Assignment for Published Patent Application	7.	Whatman Bioscience Limited

#### 3. (complete the following applicable item)

A copy of the filing receipt with the desired changes marked in red ink is enclosed for your convenience. A copy of the Assignment from the inventors to Life Technologies, Inc. a Certificate of Merger from Life Technologies, Inc. to Invitrogen Corporation and finally an Assignment from Invitrogen Corporation to Whatman Bioscience Limited are also enclosed, along with the Notices of Recordation for each document.

Respectfully submitted,

Date: November 14, 2003

Kathryn A. Piffat, Ph.D., Reg. No.: 34,901 Intellectual Property Practice Group of

**EDWARDS & ANGELL, LLP** 

P.O. Box 9169

Boston, Massachusetts 02209

Tel.: 617-439-4444 Fax: 617-439-4170

Customer No.: 21874

BOS2 354667.1

TES PATENT AND TRADEMARK OFFICE

Page 1 of 2

UNITED STATES DEPARTMENT OF COMMERCE United States Potent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450 www.uspto.gov

APPL NO.

**FILING OR 371** (c) DATE

ART UNIT

FIL FEE REC'D

750

ATTY.DOCKET NO

DRAWINGS

TOT CLMS IND CLMS

10/600,584

06/19/2003

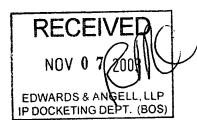
1615

45858/55670-DIV

3

2

21874 **EDWARDS & ANGELL, LLP** P.O. BOX 9169 BOSTON, MA 02209



CONFIRMATION NO. 5497

**FILING RECEIPT** \*OC000000011189040\*

Date Mailed: 11/05/2003

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

#### Applicant(s)

Robert W. Blakesley, Frederick, MD; Mindy D. Goldsborough, Gaithersburg, MD;

#### **Assignment For Published Patent Application**

Life Technologies, Inc.; <del>Whatman, Inc.;</del>

WHATMAN BIOSCIENCE LIMITED

#### Domestic Priority data as claimed by applicant

This application is a DIV of 09/354,664 07/16/1999 which claims benefit of 60/093,073 07/16/1998 and claims benefit of 60/100,737 09/17/1998

Foreign Applications

If Required, Foreign Filing License Granted: 11/05/2003

Projected Publication Date: 02/12/2004

Non-Publication Request: No

Early Publication Request: No

Title

Archiving of vectors

**Preliminary Class** 

424

# LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

#### **GRANTED**

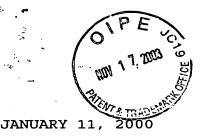
The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

#### **NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

PTAS

STERNE, KESSLER, GOLDSTEIN & FOX BRIAN J. DEL BUONO 1100 NEW YORK AVE., N.W. SUITE 600 WASHINGTON, D.C. 20005-3934



#### UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/14/1999

REEL/FRAME: 010311/0264

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BLAKESLEY, ROBERT W.

DOC DATE: 09/01/1999

ASSIGNOR:

GOLDSBOROUGH, MINDY D.

DOC DATE: 10/04/1999

ASSIGNEE:

LIFE TECHNOLOGIES, INC. 9800 MEDICAL CENTER DRIVE ROCKVILLE, MARYLAND 20850

SERIAL NUMBER: 09354664

PATENT NUMBER:

FILING DATE: 07/16/1999

ISSUE DATE:

SHIRLIE SIMON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS STEPMS, MESSIEG 40. CARACLE

#### ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Robert W. BLAKESLEY and Mindy D. GOLDSBOROUGH, the undersigned inventor(s) hereby sell(s) and assign(s) to Life Technologies, Inc., 9800 Medical Center Drive, Rockville, Maryland 20850 (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☐ for the United States of America (as defined in 35 U.S.C. § 100), ☐ and throughout the world,

(a) in the invention(s) known as Archiving of Vectors for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 9/1/7 and 10/1/7 (also known as United States Application No. 09/354,664, filed July 16, 1999), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

RUE Ly. No. 32,89

- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michael A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire,

Registration No. 35,239; and Steven R. Ludwig, Registration No. 36,203, of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: Sept. 1, 1999 Signature of Inventor: Lotorful- Blakes Le

Date: Oct. 4. 1919 Signature of Inventor: While D. GOLDSPOROLIGH



10-20-1999



6-93

### 101175448

#### RECORDATION FORM COVER SHEET PATENTS ONLY

U.S. Department of Commerce Patent and Trademark Office

1711211						
To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.						
Name of conveying party(ies):	2. Name and address of receiving party(ies):					
Robert W. BLAKESLEY and     Mindy D. GOLDSBOROUGH	Name: Life Technologies, Inc.					
	Street Address: 9800 Medical Center Drive					
A Little of the Companies and	City: Rockville State: Maryland Zip Code: 20850					
Additional name(s) of conveying party(ies) attached? □ yes ☑ no  3. Nature of Conveyance:	Country: United States					
S. Nature of convoyance.	Additional name(s) & address(es) attached? □ yes ⊠ no					
☐ Security Agreement ☐ Change of Name ☐ Other	·					
Execution Date(s): September 1, 1999 and October 4, 1999.						
4. Application number(s) or patent number(s):						
If this document is being filed together with a new applicati	ion, the execution date of the application is					
A. Patent Application No(s). 09/354,664	B. Patent No(s).					
Additional numbers attached? □ yes ☒ no						
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved					
Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.	7. Total fee (37 C.F.R. § 3.41)\$ 40.00					
	⊠ Enclosed					
Internal Address: c/o	☐ Authorized to be charged to Deposit Account					
Street Address: 1100 New York Ave., N.W. Suite 600	8. Deposit Account Number: 19-0036					
City: Washington State: D.C. Zip Code: 20005-3934						
DO NOT USE THIS SPACE						
9. Statement and signature.						
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true						
copy of the original document.						
Brian J. Del Buono Name of Person Signing Signature Date						
Registration No. 42,473  Total number of pages including cover sheet, attachments and document 3						
OMB NO. 0651-0011 (exp.4/94)						

0/20/1999 DHE YEH 00000076 09354664

I FC:581

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks, Box Assignments

Washington, D.C. 20231

40.00 0p

RECEIVED

SEP 1 5 2003

#### **NOTED ON SYSTEM**

EDWARDS & ANGELL Under Secretary of Commerce For Intellectual Property and IP DOGKETING DEPT. (BODGET) To the United States Patent and Trademark Office

Washington, DC 20231 www.uspto.gov

\*102423404A\*

IP GROUP OF EDWARDS & ANGENT KATHRYN A. PIFFAT P.O. BOX 9169

BOSTON, MA 02209

SEPTEMBER 11, 2003

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

1 7 2003

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/16/2003

REEL/FRAME: 013959/0882

NUMBER OF PAGES: 4

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LIFE TECHNOLOGIES, INC.

DOC DATE: 09/13/2000

**ASSIGNEE:** 

INVITROGEN CORPORATION 1600 FARADAY AVEUE CARLSBAD, CALIFORNIA 92008

SERIAL NUMBER: 09354664

PATENT NUMBER:

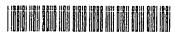
FILING DATE: 07/16/1999

ISSUE DATE:

JOANN STEWART, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

FORM PTO-1595 (Rev. 6-93) 7 700 R.

04-18-2003



102423404

Attorney Docket No.: 45858/55670

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

#### **ER SHEET**

PATENTS ONLY

L Miles					
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
Name of conveying party(ies):	2. Name and address of receiving party(ies):				
Life Technologies, Inc.	Name: Invitrogen Corporation Street Address: 1600 Faraday Aveue City, State: Carlsbad, California 92008				
Additional name(s) of conveying party(ies) attached?  Yes X No	Additional name(s) & address(es) attached?  Yes X No				
3. Nature of Conveyance:  Assignment Security Agreement Other:  Execution Date: 13 September 2000	DEFICE OF THAT TO THE PROPERTY OF THE PROPERTY				
4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is:					
A. Patent Application No(s): 09/354,664	B. Patent No.(s)  The execution date of the application is:  B. Patent No.(s)  The control of the application is:				
Additional numbers attach	ned? ☐ Yes ☒ No ☐ 50 BB				
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: [1]				
Name: Kathryn A. Piffat, Ph.D. (Reg. No.:34,901) Street Address: Intellectual Property Group of Edwards & Angell, LLP P.O. Box 9169 City: Boston State: MA Zip: 02209					
	7. Total fee (37 CFR 3.41):\$40.00  Enclosed  Authorized to be charged to deposit account				
	8. Deposit account number: 04-1105 (Attach duplicate copy of this page if paying by deposit account)				
do hot use this space					
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.					
Name of Person Signing  Name of Person Signing  Total number of pages including cover sheet, attachments, and documents:					
OMB No. 0651-0011 (exp. 4/94) <bos2.331908.1></bos2.331908.1>					
<u> </u>					

04/17/2003 GTON11 00000052 09354664-

01 FC:8021

40.00 OP

# State of Delaware

# Office of the Secretary of State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"LIFE TECHNOLOGIES, INC.", A DELAWARE CORPORATION,

WITH AND INTO "INVITROGEN CORPORATION" UNDER THE NAME OF "INVITROGEN CORPORATION", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TEIRTEENTH DAY OF SEPTEMBER, A.D. 2000, AT 4:30 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE FOURTEENTH DAY OF SEPTEMBER, A.D. 2000.

2753431 8100M

010167384

AUTHENTICATION: 1091840

DATE: 04-20-01

GCWF:GTO-

302 674 8340;# 2/ 7 NO.157 982

# CERTIFICATE OF MERGER MERGING LIFE TECHNOLOGIES, INC, INTO INTO INVITROGEN CORPORATION

Pursuant to Section 251 of the General Corporation Law of Delaware

The undersigned corporation, organized and extening under and by virtue of the General .

Corporation Law of the State of Delaware, does hereby certify:

FIRST: That the name and state of incorporation of each of the constituent corporations of the merger is as follows:

Name

State of Incorporation

Life Technologies, Inc.

Delaware

Invitragen Corporation

Delaware

SECOND: That an agreement and plan of merger between the parties to the merger has been approved, adopted, certified, executed and soknowledged by each of the constituent corporations in accordance with the requirements of Section 251 of the General Corporation Law of the State of Delaware.

THIRD: That Invitrogen Corporation, a Delaware corporation, shall be the surviving corporation of the marger and its certificate of incorporation shall be the certificate of incorporation of the surviving corporation.

POURTH: That the executed agreement and plan of merger is on file at the principal place of business of the surviving corporation. The address of the principal place of business of the surviving corporation is 1600 Faraday Avenue, Carlsbad, CA 92008.

FIFTH: That a copy of the agreement and plan of merger will be furnished by the surviving corporation, on request and without cost to any stockholder of any constituent corporation.

(Remainder of Page Intentionally Left Blank)

SENT BY:

9-13-0; 12:58;

GCWF:GTO-

302 674 8340:# 3/ 7 NJ.157 DO

SIXTH: September 14, 2000. That this Certificate of Marger shall be offective at 3:00 p.m. on

Dated: September 13, 2000

Invitrogen Corporation, a Dalaware corporation

By:

Lyle C. Turner President and CEO

ATTEST:

Lyne R. Gillan

Executive V.P. and CPO

Gray Czc/ACTN4200403\_} {CCE|94-139732

Docket No. 45858/55670

THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Blakesley et al.

EXAMINER: Brusca, J.

SERIAL NO. 09/354,664

GROUP:

1631

FILED:

July 16, 1999

FOR:

ARCHIVING OF VECTORS

CERTIFICATE OF MAILING

I hereby certify this correspondence and the documents referred to as attached herein are being deposited with the United States Postal Service as First Class Mail addressed to Assistant

Commissioner for Patents, Washington, D.C. 20231 on April 11, 2003-

Sharon Bizokas

**BOX ASSIGNMENT** 

Assistant Commissioner of Patents Washington, D.C. 20231

#### TRANSMITTAL LETTER

Transmitted herewith for filing in the above-referenced patent application are the following documents:

- 1. Executed Certificate of Merger from Life Technologies, Inc. to Invitrogen Corporation;
- 2. Merger Recordation Cover Sheet (1 page);
- 3. Executed Assignment from Invitrogen Corporation to Whatman, Inc. (2 pages);
- 4. Assignment Recordation Cover Sheet (1 page);
- 5. Two checks in the amount of \$40.00 representing the Recordal Fee for Merger and Assignment;
- 6. This Transmittal Letter (x2); and
- 7. Return Receipt Postcard.

The Commissioner is hereby authorized to charge any excess fees that may be required, or credit any overpayment to Deposit Account No. **04-1105**. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: April 11, 2003

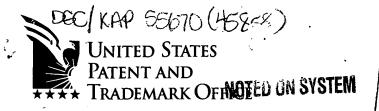
Kathryn A. Mffat, Ph. D. Reg. No.:34,901

Intellectual Property Practice Group

EDWARDS & ANGELL, LLP

P.O. Box 9169

Boston, Massachusetts 02209



EDWARDS & ANGEL Under Secretary of Commerce For Intellectual Property and

SEPTEMBER 11, 2003

BOSTON, MA 02209

**PTAS** 

EDWARDS & ANGELL, LLP KATHRYN A. PIFFAT DIKE, BRONSTEIN, ROBERTS & CUSHMAN P.O. BOX 9169

Washington, DC 20231

www.uspto.gov

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/16/2003

REEL/FRAME: 013959/0911

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

INVITROGEN CORPORATION

DOC DATE: 06/22/2001

ASSIGNEE:

WHATMAN BIOSCIENCE LIMITED 200 WELLS AVENUE NEWTON, MASSACHUSETTS 02459-3304

SERIAL NUMBER: 09354664

PATENT NUMBER:

FILING DATE: 07/16/1999

ISSUE DATE:

JEFFREY OLSEN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

## ORM COVER SHEET

102423403 [S ONLY					
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
Name of conveying party(ies):	2. Name and address of receiving party(ies):				
Invitrogen Corporation 4-16-03	Name: Whatman Bioscience Limited				
Additional name(s) of conveying party(ies) attached?	Street Address: 200 Wells Avenue				
☐ Yes ☑ No	City: Newton State: Massachusetts Zip: 02459-3304				
	Additional name(s) & address(es) attached?  Yes No				
3. Nature of Conveyance:					
Assignment					
Execution Date: 6/22/01 & 7/9/01	FFICE THE STATE OF				
4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No(s): 09/354,664  B. Patent No.(s)					
If this document is being filed together with a new application, the	ne execution date of the application is:				
A Patent Application No(s): 09/354 664	B. Patent No.(s)				
Additional numbers attacl					
	<i>₩</i>				
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: [1]				
Name: Kathryn A. Piffat, Ph.D. (Reg. No.: 34,901 Street Address: Dike, Bronstein, Roberts & Cushman Intellectual Property Group of Edwards & Angell, LLP P.O. Box 9169 City: Boston State: MA Zip: 02209					
	7. Total fee (37 CFR 3.41):\$40.00  Enclosed  Authorized to be charged to deposit account				
4/17/2003 GTON11 00000051 09354664 1 FC:8021	8. Deposit account number: 04-1105 (Attach duplicate copy of this page if paying by deposit account)				
DO NOT USE T	his space				
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Kathryn A. Piffat, Ph.D. (Reg. No.: 34,901)  Name of Person Signing  Signature  Date					
Total number of pages including cover sheet, attachments, and documents: 3					
OMB No. 0651-0011 (exp. 4/94)	<80\$2 331865 1>				

#### **ASSIGNMENT**

WHEREAS, Invitrog	en Corporation., a corpor	ration organized	l und	er the laws of	of USA, having a
place of business at	1600 Faraday Avenue	Carlsbad,	CA	92008	
	(	hereinafter calle	d the	Assignor),	is the proprietor
of the following Unite	d States Patent and Appl	ications (herein	after	referred to a	as "Patent and
Applications"):		•			

Pat/Application. No. 09/354,664 60/093,073 60/100,737 US 5,316,908

WHEREAS, Whatman Inc., a corporation organized under the laws of the state of Massachusetts, having a place of business at 200 Wells Avenue Newton, MA 02459 (hereinafter called the Assignee), is desirous of acquiring the rights, title and interests of the Assignor in and to the Patent and Applications.

NOW, THEREFORE, in consideration of the sum of ONE DOLLAR (US\$1.00) paid by the Assignee to the Assignor upon the signing of these presents and other consideration, the receipt and sufficiency of which sum is hereby acknowledged, the Assignor hereby assigns to the Assignee, the Assignee's heirs, executors, administrators all the Assignor's rights, title and interests in and to the aforesaid U.S. Patent and Applications, the right of claiming priority for the Patent and Applications as well as the emoluments, advantages, profits, and benefit accruing or belonging thereto.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to furnish all pertinent facts and documents relating to said application, said invention and said patent(s) as may be known and accessible to the undersigned, and will testify as to the same in any interference or litigation related thereto, and will promptly execute and deliver to Assignee any and all papers, instruments or affidavits necessary or desirable to apply for, obtain, maintain or enforce said application or said patent(s) in connection with any interference which may be declared, and any litigation concerning this application or any continuation, division or reissue thereof or Patent(s) or reissue patent(s) issued thereon, and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

ASSIGNOR: Invitrogen Corporation

Name (Print): 4LAN HAMMOND

Date Jun 22, 2007

Title: Chief Intellectual Property Counsel

ASSIGNEE: Whatman, Inc.

By (Print):

Date

Title:

James C. Davis, Ph. D. Vice President, R & D Whatman, North America NO 17 2003 THE

Docket No. 45858/55670

#### THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Blakesley et al.

EXAMINER: Brusca, J.

SERIAL NO.

09/354,664

GROUP:

1631

FILED:

July 16, 1999

FOR:

ARCHIVING OF VECTORS

#### CERTIFICATE OF MAILING

I hereby certify this correspondence and the documents referred to as attached herein are being deposited with the United States Postal Service as First Class Mail addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on <u>April 11</u>, 2003.

Sharon Bizokas

#### **BOX ASSIGNMENT**

Assistant Commissioner of Patents Washington, D.C. 20231

#### TRANSMITTAL LETTER

Transmitted herewith for filing in the above-referenced patent application are the following documents:

- 1. Executed Certificate of Merger from Life Technologies, Inc. to Invitrogen Corporation;
- 2. Merger Recordation Cover Sheet (1 page);
- 3. Executed Assignment from Invitrogen Corporation to Whatman, Inc. (2 pages);
- 4. Assignment Recordation Cover Sheet (1 page);
- 5. Two checks in the amount of \$40.00 representing the Recordal Fee for Merger and Assignment;
- 6. This Transmittal Letter (x2); and
- 7. Return Receipt Postcard.

The Commissioner is hereby authorized to charge any excess fees that may be required, or credit any overpayment to Deposit Account No. **04-1105**. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: April 11, 2003

Kathryn A. Mffat, Ph.D/Reg. No.:34,901

Intellectual Property Practice Group EDWARDS & ANGELL, LLP

P.O. Box 9169

Boston, Massachusetts 02209